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Ser Ser Gln Ala Val Gly Leu Phe Ile Glu Asn Met Ile Ser Thr Ser 35 40 45

His Gly His Phe Gln Glu Met Gln Phe Ser Ile Trp Ser Phe Thr Val 50 60

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Glu Met Gln Phe Ser Ile Trp Ser Phe Thr Val Leu Gln Ile Ser Ala 50 55 60

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Phe Val Glu His Asp Ile
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Homo sapiens

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85189-49001rev.txt
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<213> Homo sapiens

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His Ser Leu Cys Asp Cys Cys Val Ile Gly Phe Gln Thr Leu Ala Leu 20 25 30

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Cys Leu Gly Arg Thr His Cys 50 55

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Val Phe Cys Leu Gly Arg Thr His Cys 35 40

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<213> Homo sapiens

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Val Leu Glu Asp Leu Arg Asn Val Thr Pro Pro Lys Val Ser Leu Phe 35 40 45

Glu Pro Ser Lys Ala Glu Ile Ala Asn Lys Gln Lys Ala Thr Leu Val 50 55 60

Cys Leu Ala Arg Gly Phe Phe Pro Asp His Val Glu Leu Ser Trp Trp 65 75 80

Val Asn Gly Lys Glu Val His Ser Gly Val Ser Thr Asp Pro Gln Ala 85 90 95

Tyr Lys Glu Ser Asn Tyr Ser Tyr Cys Leu Ser Ser Arg Leu Arg Val 100 105 110

Ser Ala Thr Phe Trp His Asn Pro Arg Asn His Phe Arg Cys Gln Val

Gln Phe His Gly Leu Ser Glu Glu Asp Lys Trp Pro Glu Gly Ser Pro 130 135 140

Lys Pro Val Thr Gln Asn Ile Ser Ala Glu Ala Trp Gly Arg Ala Asp 145 150 155 160

Cys Gly Ile Thr Ser Ala Ser Tyr His Gln Gly Val Leu Ser Ala Thr 165 170 175

Ile Leu Tyr Glu Ile Leu Leu Gly Lys Ala Thr Leu Tyr Ala Val Leu 180 185 190

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His Gln Gln Ser Ile Arg Thr Cys Met Gly Asn Tyr Glu Leu Ile Lys 20 25 30

Lys His Val Glu Lys Thr Leu Cys Gly Lys Glu Val Thr Ser Pro Phe 35 40 45

Ser Leu Glu Ala Thr Trp Thr Pro Thr Gly Ser Leu Gln Ile Ser Asn 50 55 60

Ser Leu Cys Gln Thr Leu Ser Glu Met Asp Ile Arg Ser Gln Ala Lys 70 75 80

Ser Gly Ile Ser Ser Ser Ile Asp Arg Pro His Ala Arg Ser Arg Leu 85 90 95

Pro Tyr Gln Phe Trp Arg Met Glu Asn Val Ser Asn Pro Gly Ser Cys 100 105 110

Ile Glu Glu Glu Glu Arg Gly Arg Ile Leu Gly Ser Pro Phe Leu 115 120 125

Leu

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<223> J beta 2.6 sequence

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<223> Jalpha TA31 sequence

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Val Ser Lys Lys Lys Lys Lys Lys Ser Val Thr Ile Leu Asn Ser 10 15

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Pro Gly Asn Val Leu Glu His Cys Thr Gly Leu Leu Pro Ser Pro Lys 35 40 45

Asp Asp Pro Cys Gln Asp Arg Ser Ser Phe Leu Trp Gly Gly Gln 50 55 60

Trp Ile Phe Ala Val Ile Val Phe Cys Leu Ala His Ser Pro Arg Leu 65 70 75 80

Trp Pro Glu Thr Ser Pro Gln Ser Thr Thr Gln Glu Gln Arg Val Lys 85 90 95

Gly Leu Asn Gly Glu Arg Asp Ile Gly His Val Arg Thr Arg Arg Asn 100 105 110

Phe Thr Gln Lys Lys Asn Cys His Leu Gly Arg Cys Ser Val Ser Met 115 120 125

Ala Glu Val Thr Pro Pro Pro Cys Pro Arg Leu Val Ser Gln Leu Arg 130 135 140

His Gly His Gln Lys Gly Gly Phe Leu Ser Ser Leu Lys Thr Asn Leu 145 150 160

Ala Glu Ser His Leu Pro Ser Ser Pro Asn Glu Pro Val Val Ser Val Page 13 Asp Ala Leu Gly Ser Val Arg Arg Val Phe Ala Val Ala Glu Gly Ser 180 185 190

Arg Leu Thr Arg Arg Ala Arg Trp Gly Arg Thr Tyr Arg Gly Trp Thr 195 200 205

Glu Ala Ser Pro Cys Leu His Ser Ser Cys Ala Ala Ser Ser Cys Gly 210 215 220

Phe Thr Gly Gly Arg Gly Gly Trp Gly Arg Gly Ala Ile Pro Lys Ala 225 230 235 240

Val Ala Cys Phe Gly Ile Cys Ser Gly Leu Leu Cys Leu Pro Pro Trp 245 250 255

Glu Arg Thr His Leu Ala Ser Arg Arg Leu Asp Val Ala Gly Gln Glu 260 265 270

Asp Thr Gly Val Gly Gly Asn Ser Phe Arg Gly Glu Gly Glu Arg Gly 275 280 285

Gly Arg Thr Val Val Glu Gly Val Thr Gly Gly Ser Met Ser Arg Met 290 295 300

Ser Glu Val Lys Phe Lys Lys Leu Glu Ile Lys Asn Lys Lys Gln Gly 305 310 315

Arg Gly Leu Gln Lys Val Tyr Arg Ala Gly Thr Val Asp Phe Val Met 325

Ala Trp His Thr 340

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<212> PRT

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Ser Asn Pro Pro Cys Lys Pro Leu Val Leu Pro Thr Val Asp Thr Val 20 25 30

Thr Ile Arg Thr Leu Ser His Ile Asp Glu Gly Ser Asp Val Val His 35 40 45

Thr Glu Asp Ser Arg Asp Leu Ser Leu Val Thr Val Ser Asp Cys Met 50 55 60

Pro Ile Val Val His Ser Arg Val Gln Gln Thr Lys Asp Arg Asp Ile 65 70 75 80

Lys Ile Arg Trp Thr Leu Ser Pro His Leu Cys Asn Gln Met Ile Phe 85 90 95

Thr Gly Ser Leu Ala Asn Gly Cys Val Ala Ser Leu Thr Ile Ser Pro 100 105 110

Leu Leu Ser Pro Trp Leu Ser Phe Gly Ser Leu Ser Leu Thr Asn Leu 115 120 125

Lys Ser Ile Tyr Ile Ile Arg Phe Leu Gly Cys Ile Thr His Lys Lys 130 135 140

Met Thr Ser Arg His Ile Asn Ile Asn Pro Glu Glu Arg Gly Gln Arg 145 150 155 160

Ala Leu Ser Gln Thr Cys Ser Glu Leu Asn Leu Thr Thr Pro Cys Phe 165 170 175

Asn Gln Leu Ala Ser Ala Tyr Asp Gln Leu Arg Gln Arg Ala Thr Asp 180 185 190

Arg Lys Trp Ser Ser Arg His His Leu Thr Arg Ala Leu Pro His Gln
195 200 205

Arg Tyr Phe Arg Val Gln Glu Ser Phe Pro Gln Ala Gly Trp Leu Glu 210 215 220

Arg Gly His Gly Ser Ala Leu Arg Gln Ala Met Glu Ala Gly Trp Glu 225 230 235 240

Val Gln His Trp Val Ser Asp Met Glu Cys Leu Thr Val 245 250

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<221> misc_feature

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<223> J alpha New05 sequence

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Val Lys Asp Gly Tyr Pro Lys Thr Lys Val Cys Gly Phe Ala Val Leu 1 1 15

Cys Ser Phe Gly Gly Cys Met Ser Leu Pro Pro Arg Ser Leu Cys Ile 20 25 30

Thr Leu Met Gly Leu Cys Leu Met Lys Ser Gly His Ser Lys Asp Leu 35 40 45

Asp Glu Glu Val Ile Ile Ile Thr Ala Phe Phe His Tyr Leu Arg Ile 50 55 60

Arg Ser Ala Arg Phe Ile Asn Val Arg Leu Met Phe Val Leu Arg Tyr 65 70 75 80

Lys Pro Asn Asn Ser Lys Ile Arg Leu Ser Ser Val Thr Thr His Ile 90 95

His Thr His Ser His Thr His Ile Leu Thr His Trp His Asn His Thr 100 105 110

His Thr His Thr Leu Ser Gln Ser His Thr His Thr His Ser His Thr 115 120 125

Ser Thr Ile Thr His Thr Leu Thr Gln Pro His Thr His Ser Leu Ser 130 135 140

Leu Ser 145 150 160

Leu Pro Arg Gln Cys Asn Cys Ile Trp Phe Pro Ser Arg Asn Gly Cys
165 170 175

Cys Val Cys Leu Thr Asp Met Gln Ser Tyr Gln Leu Val Ser Trp Leu 180 185 190

Gly Phe Cys Tyr Cys Phe Ser Val Lys Thr Leu Pro Val Lys Glu Ala 195 200 205

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Phe Tyr Tyr Phe Ile Ser Leu Lys Leu Ala Gln Leu Ile Arg Ile Gln 225 230 235 240

Cys Trp Gly Asn Lys Thr Ser Gly Phe Ser Ser Ser Glu Leu His Ser 250 255

Gln Leu Leu Val Leu Arg Gly Cys Ser Lys Pro Ser Gln Thr Leu Gly 260 265 270

Thr Lys Ala Ala Arg Arg Lys Ala Ser Thr Arg Gly Glu Asp Asp Val 275 280 285

Ala Phe Leu Gly Leu Pro Leu Gly Pro Ser Cys Leu Leu Val Ile Val 290 295 300

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<223> j alpha S 58 sequence

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Leu Leu His Leu Phe Leu Glu Thr Leu Gly Phe Arg Leu Ser Phe Leu 20 25 30

Phe Lys Lys Gln Ser Leu Ser Lys Gln Asp Leu Leu Cys Leu Leu Ser 35 40 45

Phe His Ile Val Thr Lys Ala Gly Arg Ile Cys Ser Lys Leu Gly Leu 50 60

Arg Leu Leu Ala Lys Val Glu Trp Met Val Leu Val Tyr Arg Lys Glu 65 70 75 80

Arg Phe Val Leu Leu Phe Phe Pro Tyr Ser Lys Val Lys Ala Thr Thr 85 90 95 Page 17

Val Ala Ser Lys Val Leu Gln Ala Trp Ser Val Leu Gln Gly Glu Thr Trp Gly Asn Trp Leu Thr Phe His Gly Lys Thr Gly Met Leu Phe Val Val Gly Leu Leu Leu Leu Leu Ser Ser Leu Ser Leu Ser Leu Lys Glu Thr Tyr Asn Thr Phe Leu Ser Gly Phe Glu Leu Gly Ile Gln Met Cys Ile Thr Cys Ser Trp Gln Gly Ser Arg Ala Val Val Leu Asn Leu Pro Asn Val Val Ala Pro Ser Pro Pro Lys Thr Ile Lys Leu Phe Cys Cys Tyr Phe Ile Ala Val Thr Leu Leu Leu Leu Ile Gly Met Ile Ser Tyr Met Gln Leu Ile Tyr Ala Thr Pro Val Lys Gly Ser Leu Asn Pro Gln Arg Arg Ser Ala Leu Gln Asp Glu Ser Arg Cys Cys Arg Gly Arg Trp Ser Thr Val Ser Asn Val Arg Gly Ala Ile Glu Leu Gly Arg Asn Thr Met Pro Thr Phe Glu Glu Lys Lys Asn Ser Ser Leu Gly Leu Glu Gln Asp Pro Leu Phe Leu Val Ser Pro Leu Pro Leu Glu Lys Lys Pro Phe Ile Cys Asn Gly Leu Ser Arg Leu Met Ser Phe Met Arg Phe His Val Leu Thr Asp Ser Leu Gly Arg Arg Ser Leu Leu Pro Leu Gln Val Val Phe Asp Val Gly Asn Val Asn Cys Thr Ala Lys Ile Arg Arg Ala Gly Ile Asn Ser Gln Pro Leu Leu Met Leu Ser Leu Asn Arg Asn Gln Page 18

Ile Arg Met Leu Ser Ser Val Cys Val His Thr Pro Pro Arg Ala Ser Phe Asp Cys Gln Leu Ile Gln Ile Phe Arg His Leu Ser Glu Gln Thr Ser Leu Gly Ser Leu Cys Leu Asn Leu Ser Arg Tyr Leu His Asn Cys Gln Ile Cys Phe Thr Leu Cys Cys Ile Asp Ser Ala Lys Gln Met Arg Leu Cys Phe Pro Arg Ser Phe Ser Pro Arg Arg Ser Ser Leu Pro Pro Ser Lys His Leu Phe Thr Gln Arg Glu Asp Val Gln Arg Val Thr Leu Ile Ala Ala Ser Leu His Leu Tyr Asp Ser Leu Pro Trp Lys Arg Leu Lys His Phe Ile Arg Leu Ile Ser Thr Asp Gln Pro Asn Glu Glu Arg Asn Arg Phe Ala Ser Phe Leu Trp Leu Gln Phe Gln Ala Thr His Leu Glu His Leu Val Arg His Leu Arg Asn Thr Gly Ala Arg Arg Glu Val Val Ser Leu Cys Gly Leu Val Phe Leu Ser Cys Thr Glu Asn Phe Thr Gln Glu Glu Ser Lys Val Glu Asn Gln Pro Gly Ile His Met Tyr Thr Lys Gln Ser Ala Ser Ala Leu Ser Gly Ser Thr Val Trp Phe Pro His Ser Pro Thr Pro Ala Pro Phe Ile Ser Asn Thr Tyr Ile Ile Leu Phe Ser Phe Ser Phe Glu Phe Leu Ser Ala Met Pro Ser His Asn

Page 19

Pro Ser Thr Tyr His Cys Leu Ser Asn Pro Arg Met Asp Gly Ser Gly 595 605

Thr Gly Arg Val Leu Phe Ser Gly Pro Ser Ala Glu Pro Leu Lys Lys 610 620

Cys Arg Leu Tyr Pro Ser Ser Val Ala Thr Arg Arg Leu Gly Arg Gly 625 630 635

Gln Asp Glu Glu Lys Pro Gln Glu Ser Gly Thr Ala Ser Leu Trp Tyr 645 650 655

Ile Arg Leu Asn Leu Leu Ser Gly Leu Lys Cys Phe Ser Phe His Leu 660 670

Glu Pro Met Cys Gly Ser Glu Glu Val Phe Val Val Glu Ser Ala Thr 675 680 685

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<211> 275

<212> PRT

<213> Mus musculus

<220>

<221> misc_feature

<222> (1)..(275)

<223> J alpha New06 sequence

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His Pro Gln Ile Phe Ser Arg Arg Ile Gln Cys Leu Ala Leu Gln Thr 20 25 30

Leu Pro Val Pro Leu Lys Gly Ser Tyr Ser Phe Phe Lys His Arg Arg
35 40 45

Ile Pro Phe Asn Val Ala Asn Cys Gly Gly Asp Thr Ala Gln Gly Pro 50 55 60

Asn Leu Cys Ser Ser Leu Leu Gly Gln Leu Cys Leu Leu Ser His Arg 65 70 75 80

Thr Ser Glu Ser Gly Gly Leu Phe Pro Ser Leu Ala Phe Pro Val Asp

Glu Val Val Leu Ser Thr Asn Phe Ile Val Lys Asp Thr His Asp Arg 100 105 110 Page 20

Gln Leu Leu Pro Tyr Phe Ser Leu Asn Lys Phe Phe Leu Cys Leu Gln 115 120 125

His Ile Ser Ala Asn Glu Phe Leu Val Ile Gln Ile Asn Ser Ser Val 130 135 140

Thr Thr Val Ala Ser Tyr Pro Ile Ile Gln Asn Ser Leu Thr His His 145 150 160

Ser Ala Ala Ala His Cys Ala Ser Ser Asn Pro Asp Leu His Ala Ser 165 170 175

Ser Asn Lys Ala Lys Arg Met Ala Cys Tyr Gln Met Tyr Phe Thr Gly 180 185 190

Arg Lys Val Asp Glu Pro Ser Glu Leu Gly Ser Gly Leu Glu Leu Ser 195 200 205

Tyr Phe His Thr Gly Gly Ser Ser Gln Ala Val Gly Leu Phe Ile Glu 210 215 220

Asn Met Ile Ser Thr Ser His Gly His Phe Gln Glu Met Gln Phe Ser 225 230 235 240

Ile Trp Ser Phe Thr Val Leu Gln Ile Ser Ala Pro Gly Ser His Leu 245 250 255

Val Pro Glu Thr Glu Arg Ala Glu Gly Pro Gly Val Phe Val Glu His 260 265 270

Asp Ile Thr 275

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<221> misc_feature

<222> (1)..(556)

<223> J alpha New08 sequence

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1 10 15

85189-49001rev.txt Ser Glu Cys Arg Val Gly Lys Leu His Met Leu Gly His Gly Gly Gln His Ser Cys Thr Gly Tyr Ser Thr Ala Gln Pro Asp Thr Thr Ser Pro Thr Thr Gly Glu Thr Ala Pro Thr Leu Pro Pro Asp Thr Lys Ile Phe 50 Leu Ile Val Tyr Leu Ile Arg Ala Lys Gly Lys Ile Lys Lys Leu Cys Pro Glu Ser Ile Leu Lys Ser Pro Arg Pro Ser Pro Pro Tyr Pro His Ser Pro Ala Asp Cys Lys Phe Asn Val Ile Phe Gly Ser Tyr Lys Gly 105 Phe Leu Cys Leu Met Thr Pro Thr Val Ser Leu Pro Ser Phe Ile Lys 120 Gly Leu Leu Phe Cys Val Trp Pro Leu Leu Ala Ser Trp Phe Cys Pro 130 His Ala Pro Leu Cys Leu Phe Gln Gly Trp Ala Gly Asp Asn Ser Phe 160 145 150 Lys Ser His Phe Asp Val Thr Asp Asn Arg Asp Lys Val Leu Ala Lys 170 175 165 Cys Asn Thr Ala His Gly Val Phe Ser Arg His Thr Thr Ser Gln Leu 185 180 190 Phe Ser Ser Val Gln Lys His Gly His Ser Tyr Leu Met Ser Ala Ile 205 Tyr Ser Asp Thr Ala Lys Cys Ser Phe Lys Ala Gly Thr Arg Asp Phe 210 Leu Trp Asp Leu Phe Leu Arg Leu Thr Met Gly Trp Ala Phe Ser Gly 225 Ser Ser Glu Met Pro Ser Trp Ile Pro Ala Leu Pro Met Glu Ile Leu 250 Trp Ser Gly Thr Ala Lys Pro Asp Met Phe Leu Leu Tyr Arg Leu Leu 260 265

Gln Gly Leu Glu Ile Arg Thr Leu Arg Glu Asn Lys Ser Phe Gly Met Gly Arg Leu Leu Asp Gly Ser Ile Arg Lys Arg Asn Asp Gln Glu Glu Arg Pro Lys Lys Asn Thr Gly Gln Ala Leu Gly Trp Gly Gly Val Gly Met Ser Arg Lys Met Val Thr Val Gly Ile Gln Glu Ala Gly Ser Leu Ser Glu Gly Lys Gln Gly Phe Leu Leu Lys Val Pro Ser Gln Leu Ser Asn Leu Asn Gln Gln Gly His Leu Pro Phe Pro Ser Asp Phe Pro Val His Val Gly Met Pro Leu Pro Pro Thr Met Val Cys Glu Val Gly Arg Gly Ile Asp Gln Glu Tyr Val His Ser Gly Pro Leu Phe Lys His Glu Thr Pro Glu Ser Val Arg Gly Ala Lys Ser Leu Gly Pro Arg Arg Glu Met Gln Gln Ser Asn Ser Ser Gln Gln Val Trp Arg Ser Thr Glu Gln Asp Pro Val Leu Ala Leu Cys Leu Thr Pro Leu Ala Ser Pro Asp His Thr Ala His Pro Ser Ser Phe Ser Pro Gln Glu Ser Lys Val Leu Asp Arg Glu Pro Glu Ile Pro Pro Gly Gln Val Gln Lys Gly Trp Ser Gly Ala Gln Gly Trp Phe Leu Lys Thr Leu Trp Ile Ser Ile Phe Leu Ile Tyr Asn Lys Phe Leu Ser Val Ile Arg Lys Met Phe Leu Leu Thr Ile Pro Val Lys Gly Lys Asp Asn Ile Tyr Arg Gly Pro Leu Leu Arg Cys Page 23

Gln Phe Pro Pro Trp Ala Ser Met Trp Trp Gly Leu Ile Leu Ser Ala 530 535 540

Ser Val Lys Phe Leu Gln Arg Lys Glu Ile Leu Cys 545 555

<210> 48

<211> 604

<212> PRT

<213> Mus musculus

<220>

<221> misc_feature

<222> (1)..(604)

<223> Jalpha LB2A sequence

<400> 48

Val Ile Val Thr His Pro Leu Cys Ile Pro Pro Thr Arg Ser Ile Phe 10 15

Ala Leu Ser Ser Leu Leu Gly Ser Leu Ser Asn Val Val Ser Val Thr 20 25 30

Pro Cys Pro Tyr Leu Leu Ser Arg Tyr Lys Trp Ser Lys Gln Ile Leu 35 40 45

Gly Phe His His Ser Glu Thr Asp Asn Cys Val Leu Asp Ile Leu Gln 50 55 60

Lys Glu Gly Phe Gln Ser Lys Gly Ser His Tyr Phe Tyr Leu Thr His 65 75 80

Lys Glu Ala Gly Asp Asn Trp Lys Val Pro Gly Glu Tyr Leu Gly Phe 85 90 95

Gln Lys Ala Asp Met Ala Gln Cys Met His Ser Lys Ile Pro Leu Thr 100 105 110

Phe Ile Glu Tyr Leu Leu Tyr Ala Cys Val Asn Ala Pro Cys Thr Leu 115 120 125

Ser His Leu Arg Gly Trp Leu Trp Gly Arg Phe Tyr Pro Thr Phe Lys 130 135 140

Gly Lys Val Glu Ile Val Thr Lys Trp Leu Arg Glu Asn Gly Gly Pro 150 155 160

85189-49001rev.txt Ser Thr Ser Ser Arg Pro Gly Cys Pro His Cys Gly Leu Ser Gln Pro 175 Gly Ser Cys Gly Leu Tyr Arg Met Lys Pro Val Val Leu Val Thr Thr 190 Ser Ser Val Leu Ser Gln Pro Cys Leu Glu Gln Gly Val Arg Asp Ser Leu Cys Phe Leu Asp Ser Asp Thr Leu Lys Gln Asn Gly Glu Cys Val His Glu Gln Phe His Ser Gly Ser Met Val Asn Gly Gln Thr Asn Leu 225 Lys Arg Ser Ser Leu Trp Leu Glu Ser Pro Phe Ser Thr Pro Leu Ser Ser Leu Pro Thr Phe Leu Ser Ser Trp Thr Phe Ile Ser Gly Lys Pro 260 265 Leu His Arg Cys Leu Cys Arg Ser Gln Ile Lys Asn Glu Arg Leu Ser 280 285 Pro Gly His Thr Lys Asn Leu Arg Arg Leu Phe Phe Gln Tyr Leu Lys 300 290 295 Asn Ser Cys Val Asp Asn Gly Arg Gly His Gln Arg Gln Asn Gln Lys 320 315 310 305 Gln Met Lys Arg Arg Pro Ser Phe Ser Gly Met Leu Leu Asn Gly Ala 335 330 val Gly Gly Gln Ala Pro Leu Ser Leu Glu Ser Ala Leu Gln Gly Leu 350 His Ser Gly Ser Ser Gly Leu Arg Trp Arg Ala Leu Trp Lys Glu Phe Leu Trp His Phe Arg Leu Trp Ile Ser Cys Glu Leu Glu Val Leu Arg Pro His Asp Pro Ser Ile Glu Asp Lys Arg Val Gly Tyr Ile Cys Phe 400 385 390 Phe Leu Phe Leu Leu Phe Pro Arg Asn Arg Pro Ser Asn Cys Ser Gln 405

Ala Glu Ala Tyr Arg Asp Phe Phe Thr Leu Arg Arg Arg Thr Met Ile 420 430

Ser Gln Cys Ser Lys Trp Gly Lys Lys Arg Arg Glu Arg Glu Arg Glu 435 440 445

Arg Glu 450 460

Met Pro Arg Arg Ala Arg Gly Thr Lys Glu Val Gly Leu Cys Arg Gly 465 470 475 480

Gln Ile Ser Ile Glu Val Phe Ile Ser Ser Ala Leu Glu Asn Pro Ser 485 490 495

Ile Met Val Leu Val Thr Glu Ala Val Phe Thr Gly Lys Gln Asp Gln 500 510

Gly Ser Glu Gly Leu Pro Ile Thr Leu Ser Lys Gly Cys Val Ile Ala 515 520 525

Phe Glu Arg Thr Leu Ala Val Glu Arg Leu Leu Pro Gln Ile Ile 530 535 540

Cys Leu Leu Arg Cys Ser Leu Arg Lys Ser Asp Cys Leu Pro Leu Leu 545 550 560.

Gly Ala Trp Gly Lys Asp Leu Gly Lys Leu Arg Ala Asp Arg Arg Ser 575

Phe Ser Ala Leu His Ser Gln Ala Arg Glu Arg Gly Trp Gly Met Val
580 585 590

Gly Ala Asp Leu Cys Lys Gly Gly Trp His Cys Val

<210> 49

<211> 385 <212> PRT

<212> PRT <213> Mus musculus

<220>

<221> misc_feature

<222> (1)..(385)

<223> j alpha DK1 sequence

<400> 49

Val Cys Leu Phe Leu Trp Ile Pro Asn Leu Ile His Cys Asp Lys Cys Page 26 Lys Leu Phe Arg His Val Ser Gly Val Ser Thr Val Pro Ile His Pro Asp Ile Thr Gly Ser Lys Val Pro Ser His Ala Phe Pro Val Leu Thr Arg Lys Thr Gly Ser Ser Leu Tyr Cys Trp Gln Ala Gln Gly Ser Arg Leu Glu Asp Ala Ser Asp Ala Gln Gln Pro Ala Trp Asp Cys Pro Gly Arg Glu Ser Cys Ser Glu Met Pro Ser Ser Leu Pro Leu Gly Ile Ile Leu Leu Ser Ser Pro Thr Ala Arg Pro Cys Leu Ser Val Ala Tyr Ser Ile Pro Ala Ser His Thr Cys Gly Cys Ala Asn Ile Leu Ile Glu Ala Ser Gly Arg Ser Gly Ser Ser Met Leu Leu Phe Gly Lys Ala Ser His Ser Lys Ala Gly Leu Asp Ser Pro Pro Pro Lys Ser Leu His Ile Pro Gly Ser Gly Leu Gln Val Gln Thr Thr Met Leu Val Phe Val Val Leu Asp Met Glu Pro Gly Cys Ala Cys Leu Gln Gly Lys His Phe Ile Gly Ala Ile Ser Leu Ala His Leu Pro Val Ser Ile Phe Phe Glu Arg Ile Ser Trp Tyr Ser His Leu Val His Arg Gln Lys Asp Asp Val Asp Val Pro Arg Trp His Thr Val Ile Trp Ser Gln Ala Leu Ile Phe Pro Pro Ser Ile Phe Arg Cys Leu Ser Val Lys Val Ile Ser Ser Ser Met Ser

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85189-49001rev.txt
Pro Gly Gly Arg Leu Ala Cys Cys Pro Ser Ser Ala Val Ala Trp Met
                                 265
            260
Ala Ser Ser Cys Tyr Pro Thr Leu Cys Ile Pro Ile Ile His Leu Thr
                                                 285
        275
                             280
Leu Tyr Val Tyr Leu Leu Phe Pro Tyr Ser Met Tyr Cys His Ala Thr
    290
                                             300
Val Met Leu Phe Ile Val Ser Ser Val Ser Ser Val Val Pro Ile Thr
                                                              320
                                         315
305
                     310
Lys Ile Gln Arg Pro Asn Cys Leu Pro Cys Leu Lys Ile Ile Val Leu
                                     330
                 325
Glu Lys Lys Leu Glu Phe Cys Cys Cys Leu Tyr Arg His Glu Leu Arg
                                 345
            340
Ser Leu Ala Val Ala Arg Thr Gly Tyr Asp Phe Cys Ser Val Leu His
        355
                             360
                                                 365
Thr Pro Val Met Arg Glu Pro Val Lys Asn Leu Gln Gly Leu Val Ser
                                             380
                         375
    370
Leu
385
       50
<210>
<211>
       399
<212>
       PRT
<213>
       Mus musculus
<220>
<221>
       misc_feature
<222>
       (1)..(399)
<223>
       J alpha TA39 sequence
<400> 50
Val Pro Asp Ser Trp Leu Arg Pro Pro Leu Ser His Ser Leu Tyr His
Thr Asp Asp His Met Pro Tyr His Ser Ser Lys Val Glu Leu Gly Phe
Asn Glu Glu Arg Asn Met Leu Leu Val Val Ala Val Leu His Pro Met
```

Ser His Ser Met Phe Ile Ile Thr Leu Ile Thr Ser Ser Asp Lys Arg

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55

Lys Phe Thr Arg Arg Thr Val Thr Ile Cys Thr Leu Val Lys Met Lys val Ser Thr Gly Ala Gly Ala Tyr Cys Asn Ser Gly Tyr Gln Lys Asp Gln Ala Leu Ala Arg Lys Lys Leu Asn Lys Val Asp Leu Val Lys Leu Leu Gln Ile Phe Phe Lys Asn Gln Tyr Val Ser Glu Leu Thr Gly Glu Tyr Ser Ala Ala Ile Leu Ser Gly Phe Ser Tyr Ser Tyr Gly Thr Thr val val Glu Pro Cys Lys Arg Gly Phe His Gly Leu Asn Ser Met Leu Ser Leu Tyr Ser Ser Asn Gln Lys Gly Gly Ile Pro Ser Arg Thr Pro Lys Arg Glu Glu Ser Met Leu Ile Thr Ser Ile Asp His Ser Arg Leu Ser Ile Phe Val Arg Gln His Gly Thr Thr Ile Tyr Asn Val Phe Ile Trp Gly Thr Arg His His Arg Asp Ala Gly Cys Asp Pro Leu Asn Leu Pro Gln Tyr Leu Gly Thr Val Val Lys Glu Leu Met Val His Ala Asp Lys His Ile Pro Cys Met Gly Lys Leu Ser Lys Gly Cys Arg Thr Gly Cys Glu Gln Asp Arg Ser Cys Arg Asn Pro Arg Asn Asn Ser Ser Arg Arg Ala Asp Pro Glu Glu Arg Ala Ala Gln Leu Lys His Ile Gln Val Pro Ile Cys Phe Asp Ser Cys Thr Gly Pro Ala Leu Ser Val Lys Arg Lys Cys Leu Ile Ile Leu His Lys Leu Ile Gly Val Asn Val Cys Lys Page 29

Asn Ile Leu Gln Ile Leu Lys Cys Tyr Pro His Ile Lys Tyr Gly Ser 325 330 335

Ile Lys Gln Gln Lys Ile Leu Lys Leu Gly Gln Ser Thr Leu Leu Arg 340 345 350

Arg Asp Gly Val Cys Ser Cys Gly Ser Val Ala Thr Gly Thr Gly Lys 355 360 365

His Pro Leu Ser Leu Met Glu Val Tyr Glu Leu Arg Val Thr Leu Met 370 380

Glu Thr Gly Arg Glu Arg Ser His Phe Val Lys Thr Ser Leu Thr 385. 395

<210> 51

<211> 225

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)..(225)

<223> j beta 2.3 (bases 198551 to 198627), containing [SEQ ID NO:17]

<400> 51

Met Gly Leu Ser Ala Val Gly Arg Thr Arg Ala Glu Ser Gly Thr Ala 10 15

Glu Arg Ala Ala Pro Val Phe Val Leu Gly Leu Gln Ala Val Ser Thr 20 25 30

Asp Thr Gln Tyr Phe Gly Pro Gly Thr Arg Leu Thr Val Leu Glu Asp 35 40 45

Leu Lys Asn Val Phe Pro Pro Glu Val Ala Val Phe Glu Pro Ser Glu 50 55 60

Ala Glu Ile Ser His Thr Gln Lys Ala Thr Leu Val Cys Leu Ala Thr 65 70 75 80

Gly Phe Tyr Pro Asp His Val Glu Leu Ser Trp Trp Val Asn Gly Lys

Glu Val His Ser Gly Val Ser Thr Asp Pro Gln Pro Leu Lys Glu Gln
100 105 110

Pro Ala Leu Asn Asp Ser Arg Tyr Cys Leu Ser Ser Arg Leu Arg Val

Ser Ala Thr Phe Trp Gln Asn Pro Arg Asn His Phe Arg Cys Gln Val 130 135 140

Gln Phe Tyr Gly Leu Ser Glu Asn Asp Glu Trp Thr Gln Asp Arg Ala 145 150 155 160

Lys Pro Val Thr Gln Ile Val Ser Ala Glu Ala Trp Gly Arg Ala Asp 165 170 175

Cys Gly Phe Thr Ser Glu Ser Tyr Gln Gln Gly Val Leu Ser Ala Thr 180 185 190

Ile Leu Tyr Glu Ile Leu Leu Gly Lys Ala Thr Leu Tyr Ala Val Leu 195 200 205

Val Ser Ala Leu Val Leu Met Ala Met Val Lys Arg Lys Asp Ser Arg 210 215 220

Gly 225

<210> 52

<211> 39 <212> PR

<212> PRT <213> Homo sapiens

<220>

<221> misc_feature

<222> (1)..(39)

<223> Jalpha 2 (bases 84269 to 84334)

<400> 52

Leu Leu Phe Lys Val Gly Pro Val Ser Leu Cys Asn Gly Val Thr Tyr 1 5 10 15

Gly Met Asn Thr Gly Gly Thr Ile Asp Lys Leu Thr Phe Gly Lys Gly 20 25 30

Thr His Val Phe Ile Ile Ser

<210> 53

<211> 142

<212> PRT

<213> Homo sapiens

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85189-49001rev.txt
<220>
<221>
      misc_feature
<222>
       (1)..(142)
       Jalpha 3 (83376. To 83437), containing [SEQ ID NO:18]
<223>
<400>
     53
Leu Gln Gly Ile Glu Ala Ala Met Arg Glu Ala His Arg Pro Gly Glu
Asn Leu Gly Ser Thr Leu Thr Gly Cys Phe Gln Ser Leu His Phe Leu
Ser Ser Lys Met Thr Ile Thr Thr Ser Tyr Glu Ile Met Ala Arg Met
Lys Val Ile Asn Lys Leu Phe Asn Ile Ile Ile Ile Ile Ile Glu
    50
Ala Leu Leu Ile Leu Arg Phe Thr Leu Ser Arg Glu Arg Arg Ile Ala
65
Ser Leu Gly Asn Lys Arg Cys Lys Gln Gln Arg Pro Lys Glu Pro Phe
Arg Met Leu Leu Trp Asp Pro Ser Gly Phe Gln Gln Ile Ser Ile Lys
            100
                                105
                                                     110
Lys Val Ile Ser Lys Thr Leu Pro Thr Val Gly Val Gln Gln Cys Phe
                                                125
        115
                            120
Gln Asp Asn Leu Trp Ile Arg Asp Gln Thr Gln His Pro Ala
                                            140
                        135
    130
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54 <210>

<211> 162

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(162)

J alpha 6 (79270 to 79331), containing [SEQ ID NO:19], [SEQ ID NO <223> :20], [SEQ ID NO: 21]

<400> 54

Gln Leu Gln Glu Lys Arg His Ile Lys Phe Pro Leu Leu Ser Val Leu

Ala Ala Leu Ser Glu Ala Pro Cys Ile Leu Lys Ser Ser Arg Ala Arg Page 32

Pro Ser Glu Cys Leu Pro Gln Ala Ser Arg Val Trp Cys Leu Tyr Trp 35 40 45

Gly Ala Gly Ser Arg His Gly Glu Leu Leu Pro Cys Phe Ser Ala Asp 50 55 60

Gly Lys Val Val Phe Ser Pro Gly Tyr Thr Gly Ala Lys Glu Leu Ser 65 70 75 80

Ser Pro Gln Pro Leu Ala Pro Ala Pro Gly Leu Gln His Ser Gly Ala 85 90 95

Leu Arg Thr Ala Val Gly Asp Phe Leu Gln Leu Arg Glu Tyr Ser Gly 100 105 110

Gly Phe Pro Arg Met Leu Pro Asn Thr Met Gly Gln Leu Val Glu Gly 115 120 125

Gly His Met Lys Gln Val Leu Ser Lys Ala Val Leu Thr Val Cys Ile 130 135 140

Arg Arg Lys Leu His Thr Tyr Ile Trp Lys Arg Asn Gln Pro Tyr Cys 145 150 155 160

Ser Ser

<210> 55

<211> 133 <212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)..(133)

<223> j alpha 8 (76346 to 76405), containing [SEQ ID NO:22]

<400> 55

Ser Ile His Gly His His Ser Cys Lys Lys His Val Leu Thr Asn Ser 10 15

Val Trp Met Val Lys Leu Pro Val Leu Ser Arg Thr Glu Thr Leu Leu 20 25 30

Tyr Leu Phe Leu Glu Tyr His Phe Tyr Ile Thr Gln Gly Ile Gln Ser 40 45

Arg Ile Phe Ser Trp Val Leu Ser Asp Leu Leu Ser Ser Ser Asn Gly 50 55

Leu Arg Lys Ile Lys Val Lys Asp Met Pro Pro Thr Thr Leu Val His 70 75 80

Ala Cys Arg His Arg Asn Thr Leu Ser Asn Leu Ala Cys Asp Leu Ala 85 90 95

Ile Leu Ala Met Ala Gln Gln Gly Pro Ile Leu Tyr Arg Val Met Ser 100 105 110

Glu Cys Glu His Arg Leu Ser Glu Thr Cys Ile Trp Asn Trp His Pro 115 120 125

Thr Ser Gly Gln Ser 130

- <210> 56
- <211> 158
- <212> PRT
- <213> Homo sapiens
- <220>
- <221> misc_feature
- <222> (1)..(158)
- <223> j alpha 9 (75756 to 75816), containing [SEQ ID NO:23]

<400> 56

Gln Tyr Asn Ser Thr Arg Ala Leu Leu Cys Glu Leu Arg Asn Ala Gly
1 10 15

Arg His Phe Ala His Arg Thr Leu Ala Leu Arg Asp Ser Leu Lys Ile 20 25 30

Ser Ser Ser Pro Leu Phe Ile Phe Pro Ile Arg Lys Leu Arg Pro Arg 35 40 45

Glu Val Gly Ile Val Gly Gln Cys Glu Leu Gly Leu Gly Leu Glu Pro
50 55 60

Gly Asp Pro Gly Pro Gly Ala Ile Phe Cys Asp Cys Cys Leu Val Asn 65 70 75 80

Thr Ser Asp Arg Glu Val Val Met Leu Ile Asn Arg Lys Asn Lys Val 90 95

Leu Gln Gly Glu Tyr Lys Asn Val Leu Leu Ile Thr Ser Thr Leu Val Page 34 Ala Pro Thr Cys Ser Pro Ala Val Val Lys Trp Lys Glu Lys Glu Met 115 120 125

Ala His Phe Val Ala Val Gln Ile Thr Val Gly Asn Thr Gly Gly Phe 130 135 140

Lys Thr Ile Phe Gly Ala Gly Thr Arg Leu Phe Val Lys Ala 145 150 155

<210> 57

<211> 168

<212> PRT

<213> , Homo sapiens

<220>

<221> misc_feature

<222> (1)..(168)

<223> j alpha 11(72705 to 72765), containing [SEQ ID NO:24]

<400> 57

Val Asn Ser Gly Tyr Ser Thr Leu Thr Phe Gly Lys Gly Thr Met Leu 10 15

Leu Val Ser Pro Glu His Cys Tyr Ser Ser Asp Val Trp Phe Gln Lys 20 25 30

Asn Pro Asn Ile Ala Val Ile Pro Leu Lys Glu Gln Gly Arg Gly Phe 35 40 45

Phe Ser Glu Ser Ser Ser Asp Leu Ser Ile Leu Cys Gln Ser Val Leu 50 55 60

Trp Ile Gln Asp Thr Tyr Ile Phe Val Ser Ser Ala Gly Pro Thr Cys 65 70 75 80

Ser Ala Ser Asp His Leu Ser Leu Ile Cys Lys Met Arg Ile Ile Phe 85 90 95

Lys Leu Met Ala Gln Leu Lys Pro Lys Gly Ser Gly Ile Tyr Ala Asp 100 105 110

Tyr Ser Ile Trp Leu Ile Asn Glu Gly Phe Leu Ser Phe Ser Leu Cys 115 120 125

Arg Ser Trp Val Glu Ile Pro Asn Thr Ala Asn His Phe Cys Met Gly 130 140

Ile Cys Tyr Ser Val Asn Ser Gly Tyr Ser Thr Leu Thr Phe Gly Lys
150 155 160

Gly Thr Met Leu Leu Val Ser Pro 165

<210> 58

<211> 170

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)..(170) <223> J alpha 13 (71282 to 71342), containing [SEQ ID NO:25]

<400> 58

Asp Lys Ile Leu Glu Ser Ser Arg Lys Arg Gln Lys Val Trp Leu Ser 10 15

Thr Ser Ser Ser Asp Leu Ala Leu Val Asn Leu Gly His Ser Ile 20 25 30

Phe Ile Tyr Lys Met Lys Thr Phe Asn Ile Thr Ser Asp Phe Leu Phe 35 40 45

Phe Cys Gly Tyr Ile Ile Gly Val Tyr Ile Tyr Phe Lys Asp Lys Leu 50 60

Ile Tyr Val Lys Val Phe Cys Lys Phe Leu Asn Ala Ile His Ser Glu 65 70 75 80

Asn Ile Ile Cys Leu Asn Lys Lys Asn Tyr Val Arg Phe Arg Ile Leu 85 90 95

Leu Thr Glu Phe Val Gly Ser Asn Ser His Leu His Val Ile Cys Ser 100 105 110

Pro Arg His Trp Lys Ala Leu Ser Leu Leu Leu Lys Tyr Ser Gly Ser 115 120 125

Asn Ala Thr Gln Met Lys Arg Ala Gly Glu Gly Lys Ser Phe Cys Lys 130 135 140

Gly Arg His Tyr Ser Val Asn Ser Gly Gly Tyr Gln Lys Val Thr Phe 145 150 155 160

Gly Ile Gly Thr Lys Leu Gln Val Ile Pro

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59
<210>
<211>
       163
<212>
       PRT
<213>
       Homo sapiens
<220>
<221>
       misc_feature
<222>
       (1)..(163)
       j alpha 14 (70532 to 70583), containing [SEQ ID NO:26]
      59
<400>
Ser Tyr Ser Met Leu Leu Lys Lys Phe Leu Ile Glu Glu Arg Lys Ile
10 15
Ile Tyr Lys Asp Met Ser Asn Leu Leu Asn Ser Gly Lys Met Arg Leu
Cys Thr Gly Val Asp Ser Val Lys Met Gly Val Arg Ala Ala Ile Leu
Trp Leu Val Lys Gln Asp Tyr Leu Val Lys Leu Cys Lys Ser Pro Arg 50 55 60
    50
Lys Lys Val Ser Glu Leu Ser Arg Glu Tyr His Leu Asp Cys Ser Gln 70
Ala Phe His Tyr Ile Tyr Cys Thr Thr Met Val Pro Lys Glu Ala Phe
                                                          95
                85
                                     90
Ser Gly Leu Ile Pro Trp Leu Ser Leu Tyr Ser Ser Ile Lys Lys Gly
                                                      110
                                 105
            100
Glu Ser Ser Gln Ser Ser His Glu Gly Asp Ser Cys Met Leu Thr Thr
        115
Leu Ile Tyr Tyr Gln Gly Asn Ser Val Ile Phe Val Arg Gln His Ser
    130
Ala Val Ile Tyr Ser Thr Phe Ile Phe Gly Ser Gly Thr Arg Leu Ser
                                                              160
145
Val Lys Pro
<210> 60
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<210> 60 <211> 142 <212> PRT

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<213>
      Homo sapiens
<220>
<221>
       misc_feature
<222>
       (1)..(142)
       J alpha 24 (60203 to 60265), containing [SEQ ID NO:27]
<223>
<400> 60
Lys Thr Ser Ser Tyr Leu Asn Asp Arg Ala Thr Val Val Ile Ser Cys
His Leu Ser Ser Ala Glu Asp Trp Val Pro Val Asn Ala Ala Gly Gly
            20
Phe Leu Ser Leu Gln His Leu Lys Arg Thr Pro Arg Leu His Pro Gln
        35
Gln Ser Gly Phe Leu Pro Leu Pro Pro Gly Arg Cys Ser Ser Trp His
    50
Thr Pro Ser Leu Val Ser Lys Lys Arg Asn Lys Arg Lys Gly Glu Lys
65
Leu Ile Ser His Ile Met Gln Leu Pro His Phe Val Ala Arg Leu Phe
                85
Pro His Glu Gln Phe Val Phe Ile Gln Gln Leu Ser Ser Leu Gly Lys
                                                     110
            100
                                 105
Pro Phe Cys Arg Gly Val Cys His Ser Val Thr Thr Asp Ser Trp Gly
                            120
Lys Leu Gln Phe Gly Ala Gly Thr Gln Val Val Thr Pro
    130
<210>
       61
<211>
       176
<212>
       PRT
<213>
       Homo sapiens
<220>
       misc_feature
<221>
<222>
       (1)..(176)
       J alpha 25 (59046 to 59105)
<223>
<400> 61
Gln Lys Asp Lys Ala Ser Pro Leu Ser Leu Gly Arg Gly Gln Gly Cys
                                    10
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85189-49001rev.txt Leu Ser Ser Gln Ala Gln Ala Gly Gly Arg Lys Leu Gly Val Phe Ala Glu Pro Arg Asn Thr Val Gly Ile Thr Met Val Arg Ile Leu Ser Leu Val Pro Glu Pro Asp Cys Pro Cys Cys Pro Val Ser Thr Val Lys Trp 50 Arg Lys Met Ser Pro Val Leu Asp Val Gly Arg Ser Cys Arg Val Leu Arg Pro Gly Val His Arg Asp Leu Arg Ser Gly Asp Gly Glu Gly Lys Arg Asn Glu Lys Gln Asn His Lys Asp Asn Thr Glu Glu Gly Phe Ile Phe Gly Lys Glu Asn His Lys Ala Val Leu Thr Leu Glu Glu Met His Ser Phe Gly Gly Ser Leu Leu Arg Arg Ala Leu Cys Arg Gly Lys 130 Leu Ser Cys Val Phe Asp Ala Glu Ile Ile Thr Met Gln Lys Asp Lys 155 145 150 Ala Ser Pro Leu Ser Leu Gly Arg Gly Gln Gly Cys Leu Ser Ser Gln 170 165 <210> 62 <211> 141 <212> PRT Homo sapiens <213> <220> <221> misc_feature <222> (1)..(141)Jalpha 31 (51207 to 51263), containing [SEQ ID NO:28] <223> <400> 62 Glu Leu Gly Trp Leu Cys Ser Trp Lys Ile Ser Leu Trp Val Glu Cys Thr Val Pro Ser Asn Leu Cys Val Gly Ala His Thr Tyr Asp Ser Lys

Ser Cys Gln Ile Arg Phe Ser Phe Gly Ser Phe Met Pro Arg Asn Ala

Lys Glu Phe Lys Leu Ile Ser Leu Ala Phe Leu Lys Glu Thr Leu Phe 50 55 60

Ala Leu Cys Cys Arg Ala Asn Phe Ser Ser Tyr His Lys Arg Pro Glu 65 70 75 80

Thr Gln Arg Lys Gln Lys Lys Lys Arg Lys Lys Lys Lys Thr Gln Gly 85 90 95

Glu Ser Asn Cys Pro Leu Thr Thr Val Leu Cys Val Trp Gly Phe Thr 100 105 110

Met Gly Phe Ser Lys Gly Arg Lys Cys Cys Gly Asn Asn Asn Ala Arg 115 120 125

Leu Met Phe Gly Asp Gly Thr Gln Leu Val Val Lys Pro 130 135 140

<210> 63

<211> 148

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)..(148)

<223> j alpha 36 (45351 to 45411), containing [SEQ ID NO:29]

<400> 63

Lys Leu Gly Ala Val Ser Leu Thr Cys Asn Leu Ser Ile Leu Glu Gly
1 10 15

Gly Arg Arg Ile Thr Gly Gln Glu Phe Lys Thr Thr Leu Gly Asn Thr 20 25 30

Val Arg Pro Pro Ser Leu Gln Lys Ile Asn Lys Asn Phe Phe Lys Asn 35 40 45

Ser Gln Ala Trp His Ala Pro Val Ile Leu Ala Thr Glu Glu Val Glu 50 55 60

Ala Gly Gly Ser Leu Val Pro Arg Arg Ser Arg Leu Gln Ala Lys Asn 65 70 75 80

Thr Pro Leu His Ser Ser Leu Asp Asn Lys Val Arg Ser Cys Leu Lys

```
85189-49001rev.txt
Tyr Ile Phe Lys Asn Ile Lys Ile Ser Arg Arg Arg Lys Glu Met Lys
                                                     110
                                105
            100
Lys Ile Trp Leu Ser Arg Lys Val Phe Leu Tyr Trp Ala Glu Thr Leu
                                                 125
                            120
Cys Gln Thr Gly Ala Asn Asn Leu Phe Phe Gly Thr Gly Thr Arg Leu
Thr Val Ile Pro
145
<210>
      64
<211>
      144
<212>
      PRT
<213>
       Homo sapiens
<220>
       misc_feature
<221>
<222>
       (1)..(144)
       Jalpha 40 (39930 to 39990), containing [SEQ ID NO:30], [SEQ ID N
<223>
       0:31], [SEQ ID NO:32], [SEQ ID NO:33]
<400> 64
Asn Tyr Lys Ile Met Ser Trp Val Cys Leu Cys Gly Ser Thr Gly Ser
Arg Gly Glu Ser Met Glu Tyr Phe Arg Gly Phe Asn Ser His Leu Asp
                                                     30
Ala Val Leu Ile Cys Ser Leu Asn Gln Thr Leu Leu Ile Asn Met His
                                                 45
                            40
Lys Asp Ser Met Arg Leu Lys Asn Phe Cys Lys Leu Gly Pro Asn Arg
Ser Ser Glu Asp Phe Leu Tyr Glu Leu Arg Tyr Asn Pro Lys Ile Thr
Cys Arg Lys Ile Arg Gly Gln Gly Leu Ser Met Gly Lys Val His Val
Met Pro Leu Leu Phe Met Glu Ser Lys Ala Ala Ser Ile Asn Gly Asn
            100
Ile Met Leu Val Tyr Val Glu Thr His Asn Thr Val Thr Thr Ser Gly
                             120
                                                 125
        115
```

Thr Tyr Lys Tyr Ile Phe Gly Thr Gly Thr Arg Leu Lys Val Leu Ala

```
135
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<210> 65 <211> 152

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)..(152)

<400> 65

Gln Leu Leu Ser Leu Tyr Leu Pro Pro Thr Phe Thr Leu Glu Pro His 10 15

Arg Ile Val Ser Val His Ala Pro Gly Cys Ser Gln Ser Arg Pro Ala 20 25 30

Arg Arg Ser Ala Gly His Arg Lys Thr Pro Asp Phe Ile Thr Cys His 35 40 45

Arg Ala Pro Ser Leu Arg Trp Gln Ile Ser Ile Leu Ile Thr His Ile 50 55 60

Thr Val Gly Ser Gly Asp Leu Val Ser Asn Gly Leu Met Glu Gly 65 70 75 80

Ser Phe Ile Tyr Thr Ile Lys Gly Pro Trp Met Thr His Ser Leu Cys 90 95

Asp Cys Cys Val Ile Gly Phe Gln Thr Leu Ala Leu Ile Gly Ile Ile 100 100 110

Gly Glu Gly Thr Trp Trp Leu Leu Gln Gly Val Phe Cys Leu Gly Arg 115 120 125

Thr His Cys Gly Thr Gln Ile Pro Gly Met His Ser Thr Ser Ala Lys 130 135 140

Ala Pro Arg Cys Trp Ser His Pro 145 150

<210> 66

<211> 141

<212> PRT

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Pro Arg Asn Arg Lys Asp Lys Glu Phe Asn Ser Gln Cys Leu Gln Ser 20 25 30

Thr Gln Leu Leu Ser Leu Asn His Leu Val Ser Thr Pro Pro Thr Glu 45

Val Lys Glu Gly Asn Gln Gln Val Met Leu Val Lys Val Ser Gly Gln 50 60

Ser Gln Leu Pro Ser Glu Leu Ile Leu Trp Ser Leu Gly Lys Gly Asn 70 75 80

Ala Ser Val Arg Ala His Pro Gly Cys Pro Ser Gly Arg Asp His Gly 85 90 95

Glu Ser Ser Glu Gly Ser Glu His Gln Met Glu Ser Gln Ala Thr Gly
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Phe Cys Tyr Glu Ala Ser His Ser Val Asn Thr Gly Thr Ala Ser Lys 115 120 125

Leu Thr Phe Gly Thr Gly Thr Arg Leu Gln Val Thr Leu 130 135 140

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<211> 225

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<213> Homo sapiens

<400> 68

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Asp Thr Gln Tyr Phe Gly Pro Gly Thr Arg Leu Thr Val Leu Glu Asp 35 40 45

Leu Lys Asn Val Phe Pro Pro Glu Val Ala Val Phe Glu Pro Ser Glu 50 60

Ala Glu Ile Ser His Thr Gln Lys Ala Thr Leu Val Cys Leu Ala Thr

Gly Phe Tyr Pro Asp His Val Glu Leu Ser Trp Trp Val Asn Gly Lys

Glu Val His Ser Gly Val Ser Thr Asp Pro Gln Pro Leu Lys Glu Gln 100 110

Pro Ala Leu Asn Asp Ser Arg Tyr Cys Leu Ser Ser Arg Leu Arg Val 115

Ser Ala Thr Phe Trp Gln Asn Pro Arg Asn His Phe Arg Cys Gln Val 130 135

Gln Phe Tyr Gly Leu Ser Glu Asn Asp Glu Trp Thr Gln Asp Arg Ala 160 145

Lys Pro Val Thr Gln Ile Val Ser Ala Glu Ala Trp Gly Arg Ala Asp 165

Cys Gly Phe Thr Ser Glu Ser Tyr Gln Gln Gly Val Leu Ser Ala Thr 185 190 180

Ile Leu Tyr Glu Ile Leu Leu Gly Lys Ala Thr Leu Tyr Ala Val Leu 195 205 200

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Gly 225

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